

## NORWEGIAN SEA EXPEDITION 1969

Observations from "Helland-Hansen"

27 July - 30 August 1969

Hydrography

The section St. 1-17 have been repeated 6 times. One of the sections have observations from surface to the bottom. The other 5 sections have observations only to 150 meters depth.

St. 18-35 have been carried out two times with observations from surface to 150 meters depth.

Anchor station I 30/7-7/8 1969 duration 7,5 days

Anchor station II 12/8-14/8 1969 duration 38 hours

Anchor station III 19/8-20/8 1969 duration 38 hours

At anchor station I,II,III hydrographical stations have been taken every second hour, with observation depths 0, 1, 10, 15, 20, 30, 40, 50, 75, 100 and 150 meters.

Anchor station IV 25/8-27/8 1969 duration 46 hours

Anchor station V 28/8-30/8 1969 duration 38 hours

At anchor station IV and V observations have been taken from surface to the bottom.

Continuous temperature recordings from 1, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 and 55 meters depth have been made at all anchor stations.

Current measurement

At anchor station I,II,IV and V current have been measured from the ship at 10, 25 and 60 meters depth.

At anchor station III the vertical profile of the current have been observed.

Observations from moored buoys

Buoy I and II 29/7-30/8 1969 duration 32 days  
Current and temperature observations at 10, 25 and 50 meters  
depth.

Buoy III 29/7-30/8 1969 duration 32 days  
Current and temperature observations at 25 and 50 meters  
depth.

Subsurface buoy 30/7-30/8 1969 duration 31 days  
Current have been measured in the cold deep water 15 meters  
above the bottom.

Meteorological observations

Observations every hour during the whole Expedition.

Bergen, 15 September 1969

Cand.real. Reidar Leinebø

15.IX.69 RL/AB